RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants

Date:- 09-10-2017

To,

ASSISTANT EXECUTIVE ENGINEER

SHETTYHALLI SUB DIVISION

BBMP

BANGALORE

Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of PROVIDING STREET NAME BOARDS AT CHIKKASANDRA ABBHIGERE, MALLASANDRA IN WARD NO.12, IN SHETTYHALLI SUB DIVISION.

Ref: 1. Work Order No: BBMP/EE/DD/WO/05/2017-18

2. Job code: 012-17-000005

We are herewith forwarding to Technical Manager (west), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, Bangalore - 560010. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 24,97,542.75/- (Rs. Twenty Four Lakhs Ninety Seven Thousand Five Hundred Fourty Two and Seventy Five Paise Only.) for further needful.

Thanking you,

Yours faithfully,

For RUDRAPRASAD CONSULTANTS

For Rudraprasad Consutants

Partner / s.

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSUTANT
RUDRAPRASAD CONSULTANTS

AE-12

#3, 7th Main Malleswaram, Bangalore – 560003

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Certificate No.: T-4098

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-08-21-02 Date: 23-08-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing street name boards at Childkanandra abbigere, Mallasandra in ward no.12 in Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-17
Sample ID No	:	2017-08-21-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.45	_
2	Finess by Air permeablity method (m^2/kg, Min)	277.4	225m^2/kg, Min
3	Density (gm/cc)	3.21	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಸವನಹಳ್ಳಿ ಪಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-21-02**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 19-09-17**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing street name boards at Chikkasandra abbigere, Mallasandra in ward no.12 in Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-17
Sample ID No	:	2017-08-21-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-08-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-21-02** **Date: 24-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing street name boards at Chikkasandra abbigere, Mallasandra in ward no.12 in Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-17
Sample ID No	:	2017-08-21-02-02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	249	249	5.0	95.0	90-100
3	10 mm	2482	2731	54.6	45.4	25-55
4	4.75 mm	1898	4629	92.6	7.4	0-10
5	Pan	371	5000	100	0	_

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-08-31-02 Date: 26/09/2017
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing street name boards at Chikkasandra abbigere, Mallasandra in ward no.12 in Shettyhalli Sub Division
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-08-17
Sample ID No	:	2017-08-31-02-02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	29/08/2017	26/09/2017	150.32 X 150.26 X 150.30	22587	8.376	506.0	22.4	22.9
2	M20 Concrete	M20	29/08/2017	26/09/2017	150.32 X 150.29 X 150.29	22592	8.360	528.6	23.4	
3	M20 Concrete	M20	29/08/2017	26/09/2017	150.32 X 150.35 X 150.28	22601	8.398	517.6	22.9	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

****End of Report****

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